






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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/081,051
				Filing Date	February 20, 2002
				First Named Inventor	Anthony F. Barbet
				Art Unit	1645
				Examiner Name	Padmavathi Baskar
				Attorney Docket Number	UF-299XC1
Sheet	1	of	6		

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
U2	U1	US-4,879,213	11-07-1989	Fox <i>et al.</i>	
	U2	US-5,183,740	02-02-1993	Ligler <i>et al.</i>	
	U3	US-5,561,071	10-01-1996	Hollenberg <i>et al.</i>	
	U4	US-5,565,335	10-15-1996	Capon <i>et al.</i>	
	U5	US-5,643,570	07-01-1997	Theofan <i>et al.</i>	
	U6	US-5,712,170	01-27-1998	Kouvonen <i>et al.</i>	
	U7	US-5,750,352	05-12-1998	Vogelstein <i>et al.</i>	
	U8	US-5,753,439	05-19-1998	Smith <i>et al.</i>	
	U9	US-5,783,441	07-21-1998	Carl <i>et al.</i>	
	U10	US-5,843,464	12-01-1998	Bakaletz <i>et al.</i>	
	U11	US-5,990,275	11-23-1999	Whitlow <i>et al.</i>	
	U12	US-6,025,338	02-12-2000	Barbet <i>et al.</i>	
	U13	US-6,121,424	09-19-2000	Whitlow <i>et al.</i>	
	U14	US-6,214,545	04-10-2001	Dong <i>et al.</i>	
	U15	US-6,251,872	06-26-2001	Barbet <i>et al.</i>	
	U16	US-6,277,375	08-21-2001	Ward	
	PN	U17	US-6,319,691	11-20-2001	Pang
	U18	US-			
	U19	US-			
	U20	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	F1	WO 90/12030	10-18-1990	Wash St. U. Res. Found Inc.		
	F2	WO 98/16554	04-23-1998	Univ. of Florida		
	F3	WO 99/13720	03-25-1999	The Ohio St. Univ.		
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	F6					
	F7					
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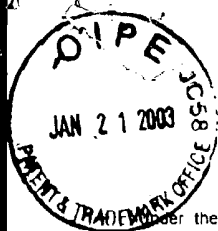
Examiner Signature	<i>Padma Baskar</i>	Date Considered	4/3/04
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


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Sheet	2	Filing Date	February 20, 2002
	of	First Named Inventor	Anthony F. Barbet
	6	Group Art Unit	1645
		Examiner Name	Padmavathi Baskar
		Attorney Docket Number	UF-299XC1

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	BENOIST, et al., "In vivo Sequence Requirements of the SV40 Early Promoter Region," <i>Nature</i> , 1981, 290 304-310; Pub: Macmillan Journals Ltd.	
	R2	BIANCHI, et al., "Biosensor technology and surface plasmon resonance for real-time detection of HIV-1 genomic sequences amplified by polymerase chain reaction", <i>Clin. Diagn. Virol.</i> , 1997, 8:199-208	
	R3	BOWIE, et al., "Potential Value of Major Antigenic Protein 2 for Serological Diagnosis of Heartwater and Related Ehrlichial Infections," <i>Clinical and Diagnostic Laboratory Immunology</i> , 1999, 6(2) 209-215, Pub: American Society for Microbiology.	
	R4	BREITSCHWERDT, et al., "Doxycycline Hyclate Treatment of Experimental Canine Ehrlichiosis Followed By Challenge Inoculation with Two <i>Ehrlichia canis</i> Strains," <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42(2):362-368, Pub: American Society for Microbiology.	
	R5	BRINSTER, et al., "Regulation of Metallothionein-Thymidine Kinase Fusion Plasmids Injected into Mouse Eggs," <i>Nature</i> , 1982, 296:39-42; Pub: Macmillan Journals Ltd.	
	R6	BROUQUI, et al., "Serologic Diagnosis of Human Monocytic Ehrlichiosis by Immunoblot Analysis," <i>Clinical & Diagnostic Laboratory Immunology</i> , 1994, 1(6):645-9, Pub: American Society for Microbiology.	
	R7	BURGESS, et al., "Possible Dissociation of the Heparin-Binding and Mitogenic Activities of Heparin-Binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-Binding Activities by Site-Directed Mutagenesis of a Single Lysine Residue," <i>J. Cell Biol.</i> , 1990, 111:2129-2138; Pub: The Rockefeller University Press.	
	R8	BYROM, et al., "Improved Culture Conditions for <i>Cowdria ruminantium</i> (Rickettsiales), the Agent of Heartwater Disease of Domestic Ruminants," <i>Cytotechnology</i> , 1990, 4:285-290; Pub: Kluwer Academic Publishers, Netherlands.	
	R9	CLARKE, et al., "A Colony Bank Containing Synthetic ColEI Hybrid Plasmids Representative of the Entire <i>E. Coli</i> Genome," <i>Cell</i> , 1976, 9:91-99; Pub: MIT.	
	R10	COX, et al., "Bovine Herpesvirus 1: Immune Responses in Mice and Cattle Injected with Plasmid DNA", <i>J. Virol.</i> , 1993, 67(9):5664-5667; Pub: American Society for Microbiology.	
	R11	DANKO, et al., "Direct Gene Transfer into Muscle," <i>Vaccine</i> , 1994, 12(16):1499-1502, Pub: Butterworth-Heinemann Ltd.	
	R12	DE BOER, et al., "The Tac Promoter: A Functional Hybrid Derived from the trp and lac Promoters," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1983, 80:21-25; Pub: National Academy of Sciences.	
		R13	DE VILLIERS, et al., "Macrorestriction Fragment Profiles Reveal Genetic Variation of <i>Cowdria ruminantium</i> Isolates," <i>J. Clin Microbiol.</i> , 2000, 38(5):1967-1970. Pub: American Society for Microbiology.

Examiner Signature	<i>Padma Baskar</i>	Date Considered	4/3/04
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		Group Art Unit	1645
		Examiner Name	Padmavathi Baskar
		Attorney Docket Number	UF-299XC1
Sheet	3	of	6

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JP	R14	DUMLER, et al., "Reorganization of genera in the Families Rickettsiaceae and Anaplasmataceae in the order of Rickettsiales: Unification of Some Species of <i>Ehrlichia</i> with <i>Anaplasma</i> , <i>Cowdria</i> with <i>Ehrlichia</i> and <i>Ehrlichia</i> with <i>Neorickettsia</i> . Descriptions of six new Species Combinations and Designation of <i>Ehrlichia equi</i> and 'HGE agent' as Subjective Synonyms of <i>Ehrlichia phagocytophila</i> ," <i>Int. J. Syst. Evol. Microbiol.</i> , 2001, 51(Pt 6):2145-65; Pub: in Great Britain	
	R15	DU PLESSIS, J.L., "Immunity in Heartwater: I. A Preliminary Note on the Role of Serum Antibodies," <i>Onderstepoort J. vet Res.</i> , 1970, 37(3):147-150; Pub: Heer Printing Company (Pty) Ltd. for the Gov't Printer, Pretoria, Republic Of South Africa	
	R16	DUTTA, et al., "Association of Deficiency in Antibody Response to Vaccine and Heterogeneity of <i>Ehrlichia risticii</i> Strains with Potomac Horse Fever Vaccine Failure in Horses," <i>Journal of Clinical Microbiology</i> , 1998, 36(2):506-512; Pub: American Society for Microbiology	
	R17	GARDNER, et al., "The Complete Nucleotide Sequence of an Infectious Clone of Cauliflower Mosaic Virus by M13mp7 Shotgun Sequencing," <i>Nucl. Acids Res.</i> , 1981, 9(12):2871-2888; Pub: IRL Press Ltd., U.K.	
	R18	HELMICK, et al., "Rocky Mountain Spotted Fever: Clinical, Laboratory, and Epidemiological Features of 262 Cases," <i>J. Infect. Dis.</i> , 1984, 150(4):480-8; Pub: The University of Chicago.	
	R19	HENDRIX, et al., "Cloning and Sequencing of <i>Coxiella burnetii</i> Outer Membrane Protein Gene com1," <i>Infection and Immunity</i> , 1993, 61(2):470-477; Pub: American Society for Microbiology.	
	R20	HERRERA-ESTRELLA, et al., "Expression of Chimaeric Genes Transferred into Plant Cells Using a Ti-Plasmid-Derived Vector," <i>Nature</i> , 1983, 303:209-213; Pub: Macmillan Journals Ltd.	
	R21	HERRERA-ESTRELLA, et al., "Light-Inducible and Chloroplast-Associated Expression of a Chimaeric Gene Introduced into <i>Nicotiana tabacum</i> Using a Ti Plasmid Vector," <i>Nature</i> , 1984, 310:115-120.	
	R22	HIGGINS, et al., "Using CLUSTAL for Multiple Sequence Alignments," <i>Methods in Enzymol.</i> , 1996, 266:383-402; Pub: Academic Press, Inc.	
	R23	KELLY, et al., "Serological Evidence for Antigenic Relationships Between <i>Ehrlichia canis</i> and <i>Cowdria ruminantium</i> ," <i>Res. Vet. Sci.</i> , 1994, 56:170-4; Pub: Unknown.	
	R24	LALLY, et al., "The <i>Cowdria ruminantium groE</i> operon," <i>Microbiology</i> , 1995, 141:2091-2100; PUB: SGM in Great Britain.	
	R25	LAZAR, et al., "Transforming Growth Factor α Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> , 1988, 8(3):1247-52; Pub: American Society for Microbiology.	
JP	R26	LEWIS, Jr., G.E., et al., "Experimentally Induced Infection of Dogs, Cats, and Nonhuman Primates with <i>Ehrlichia equi</i> , Etiologic Agent of Equine Ehrlichiosis," <i>Am. J. Vet. Res.</i> , 1975, 36(1):85-88; Pub: Unknown.	

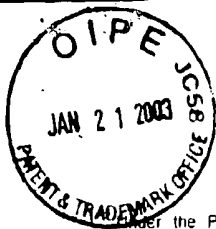
Examiner Signature	<i>Padma Baskar</i>	Date Considered	4/3/04
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				First Named Inventor	Anthony F. Barbet
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				Examiner Name	Padmavathi Baskar
				Attorney Docket Number	UF-299XC1
Sheet	4	of	6		

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NON PATENT LITERATURE DOCUMENTS			
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P	R27	MAHAN, et al., "An Immunoblotting Diagnostic Assay for Heartwater Based on the Immunodominant 32-Kilodalton Protein of <i>Cowdria ruminantium</i> Detects False Positives in Field Sera," <i>J. Clin. Microbiol.</i> , 1993, 31(10):2729-2737; Pub: American Society for Microbiology.	
	R28	MAHAN, et al., "Molecular Cloning of a Gene Encoding the Immunogenic 21 kDa protein of <i>Cowdria ruminantium</i> ," <i>Microbiology</i> , 1994, 140:2135-2142; Pub: SGM in Great Britain.	
	R29	MAHAN, et al., "Comparison of Efficacy of American and African <i>Amblyomma</i> Ticks as Vectors of Heartwater (<i>Cowdria ruminantium</i>) Infection by Molecular Analyses and Transmission Trials," <i>J. Parasitol.</i> , 2000, 86(1):44-49; Pub: American Society of Parasitologists	
	R30	MAYFIELD, et al., "The Cloning, Expression, and Nucleotide Sequence of a Gene Coding for an Immunogenic <i>Brucella abortus</i> Protein," <i>Gene</i> , 1988, 63:1-9; Pub: Elsevier Science Publishers B.V.	
	R31	MCGUIRE, et al., "Recombinant Vaccinia Virus Expression of <i>Anaplasma marginale</i> surface protein MSP-1a: Effect of Promoters, Leader Sequences and GPI Anchor Sequence on Antibody Response," <i>Vaccine</i> , 1994, 12(5):465-471; Pub: Butterworth-Heinemann Ltd	
	R32	MWANGI, et al., "Major Antigenic Proteins 1 and 2 of <i>Cowdria ruminantium</i> are Targets for T-Lymphocyte Responses of Immune Cattle," <i>Ann. N.Y. Acad. Sci.</i> , 1998, 849:372-374	
	R33	OBERLE, et al., "Derivation of the Complete <i>msp4</i> Gene Sequence of <i>Anaplasma marginale</i> Without Cloning", <i>Gene</i> , 1993, 136:291-294; Pub: Elsevier Science Publishers B.V.	
	R34	OGERT, et al., "Detection of Cocaine Using the Flow Immunosensor", <i>Analytical Letters</i> , 1992, 25(11):1999-2019; Pub: Marcel Dekker, Inc.	
	R35	PEARSON, et al., "Improved Tools for Biological Sequence Comparison," <i>Proc. Natl. Acad. Sci. USA</i> , 1988, 85(8):2444-2448; Pub: National Academy of Sciences	
	R36	REDDY, et al., "Sequence Heterogeneity of the Major Antigenic Protein 1 Genes from <i>Cowdria ruminantium</i> Isolates from Different Geographical Areas," <i>Clinical and Diagnostic Laboratory Immunology</i> , 1996, 3(4):417-422; Pub: American Society for Microbiology	
	R37	RIKIHISA, et al., "Western Immunoblot Analysis of <i>Ehrlichia chafeensis</i> , <i>E. canis</i> , or <i>E. ewingii</i> Infections in Dogs and Humans," <i>J. Clin. Microbiology</i> , 1994, 32(9):2107-12; Pub: American Society for Microbiology.	
JA	R38	RURANGIRWA, et al., "Restriction of Major Surface Protein 2 (MSP2) Variants During Tick Transmission of the Ehrlichia <i>Anaplasma marginale</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96:3171-76; Pub: Unknown.	

Examiner Signature	<i>Padma Baskar</i>	Date Considered	4/3/04
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Sheet

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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RP	R39	SCHEMA, et al., "Genome Analysis with Gene Expression Microarrays," <i>BioEssays</i> , 1996, 18(5):427-31; Pub: ICSU Press.	
	R40	SCHODEL, et al., "Introduction: Nucleic Acid Vaccines, WHO, Geneva, 17-18 May 1994," <i>Vaccine</i> , 1994, 12(16):1491-2; Pub: Butterworth-Heinemann Ltd.	
	R41	SEDEGAH, et al., "Protection Against Malaria by Immunization with Plasmid DNA Encoding Circumsporozoite Protein", <i>Proc. Natl Acad. Sci. USA</i> , 1994, 91(21):9866-9870; Pub: National Academy of Sciences	
	R42	SOKOL, et al., "Demonstration of an Iron-Siderophore-Binding Protein in the Outer Membrane of <i>Pseudomonas aeruginosa</i> ," <i>Infection and Immunity</i> , 1983, 40(2):665-669; Pub: American Society for Microbiology	
	R43	SOKOL, et al., "Monoclonal Antibodies to <i>Pseudomonas aeruginosa</i> Ferripyochelin-Binding Protein," <i>Infection and Immunity</i> , 1986, 53(3):621-627; Pub: American Society for Microbiology	
	R44	SOKOL, P.A., "Surface Expression of Ferripyochelin-Binding Protein is Required for Virulence of <i>Pseudomonas aeruginosa</i> ," <i>Infection and Immunity</i> , 1987, 55(9):2021-25; Pub: American Society for Microbiology	
	R45	SUMNER, et al., "Protection of Guinea-Pigs from Experimental Rocky Mountain Spotted Fever by Immunization with Baculovirus-Expressed <i>Rickettsia rickettsii</i> rOmpA Protein", <i>Vaccine</i> , 1995, 13(1):29-35; Pub: Elsevier Science Ltd., Great Britain.	
	R46	UILENBERG, Gerrit, "Heartwater (<i>Cowdria ruminantium</i> Infection): Current Status," <i>Advances In Veterinary Science and Comparative Medicine</i> , 1983, 27:427-480; Pub: Academic Press, Inc.	
	R47	ULMER, J.B. et al., "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein," <i>Science</i> , 1993, 259(5102):1745-49; Pub: American Assn. for the Advancement of Science.	
	R48	VAN VLIET, et al., "Molecular Cloning, Sequence Analysis, and Expression of the Gene Encoding the Immunodominant 32-Kilodalton Protein of <i>Cowdria ruminantium</i> ," <i>Infection & Immunity</i> , 1994, 62(4):1451-6; Pub: Unknown.	
	R49	VAN VLIET, et al., "Use of a Specific Immunogenic Region on the <i>Cowdria ruminantium</i> MAP1 Protein in a Serological Assay," <i>J. Clinical Microbiology</i> , 1995, 33(9):2405-10; Pub: American Society of Microbiology.	
	R50	VEMULAPALL, et al., "Pathogenic, Immunologic, and Molecular Differences Between Two <i>Ehrlichia risticii</i> Strains," <i>J. Clinical Microbiology</i> , 1995, 33(11):2987-93; Pub: American Society for Microbiology.	
RB	R51	VILLA-KAMAROFF, et al., "A Bacterial Clone Synthesizing Proinsulin", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1978, 75(8):3727-31; Pub: National Academy of Sciences.	

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First Named Inventor	Anthony F. Barbet
Group Art Unit	1645
Examiner Name	Padmavathi Baskar
Attorney Docket Number	UF-299XC1

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PD	R52	VISHWANATH, S., et al., "A Recombinant <i>Rickettsia conorii</i> Vaccine Protects Guinea Pigs from Experimental Boutonneuse Fever and Rocky Mountain Spotted Fever," <i>Infection and Immunity</i> , 1990, 58(3):646-53; Pub: American Society for Microbiology.	
	R53	WEI, et al., "Isolation and Comparison of Two Molecular Species of the BAL 31 Nuclease from <i>Alteromonas espejiana</i> with Distinct Kinetic Properties," <i>J. Biol. Chem.</i> , 1983, 258(22):13506-13512; Pub: Unknown in U.S.A.	
	R54	WOLFF, et al., "Long-Term Persistence of Plasmid DNA and Foreign Gene Expression in Mouse Muscle," <i>Hum. Mol. Genet.</i> , 1992, 1(6):363-9; Pub: Oxford University Press.	
	R55	WOODWARD, T., "Rickettsial Diseases: Certain Unsettled Problems in Their Historical Perspective," <i>Rickettsia and Rickettsial Diseases</i> , 1981, pp. 17-40 W. Burgdorfer and R. Anacker, eds.; Pub: Academic Press, Inc.	
PD	R56	YAMAMOTO, et al., "Identification of a Functional Promoter in the Long Terminal Repeat of Rous Sarcoma Virus," <i>Cell</i> , 1980, 22:787-97; Pub: MIT	
	R57		
	R58		
	R59		
	R60		
	R61		
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			Application Number	10/081,051	
			Filing Date	February 20, 2002	
			First Named Inventor	Anthony F. Baskar	
			Art Unit	16415	
			Examiner Name	Unknown Baskar	
Sheet	1	of	2	Attorney Docket Number	UF-299XC1

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		Number - Kind Code* (if known)			
	U1	US-			
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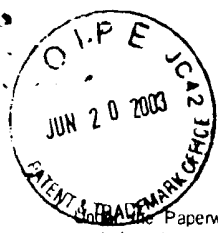
FOREIGN PATENT DOCUMENTS						
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		Country Code ²	Number ³ - Kind Code ⁴ (if known)			
	F1		EP 0 311 469 A2	04/12/1989	Plant Genetic Systems N.V.	
	F2		WO 00/65063 A2	11/02/2000	University of Florida	
	F3					
	F4					
	F5					
	F6					
	F7					
	F8					
	F9					
	F10					

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		Application Number	10/081,051
		Filing Date	February 20, 2002
		First Named Inventor	Anthony F. Barbet
		Group Art Unit	1645
		Examiner Name	Unknown BASKAR
		Attorney Docket Number	UF-299XC1

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BB	R1	MAHAN, S.M., "Review of the molecular biology of <i>Cowdria ruminantium</i> ", <i>Vet. Parasitology</i> (1995), 57:51-56; XP002913057; Elsevier Science B.V.
BB	R2	MAHAN, S.M., et al., "Vaccine Strategies for <i>Cowdria ruminantium</i> Infections and their Application to other Ehrlichial Infections", <i>Parasitology Today</i> (1999), 15(7):290-294; XP-002241886; Elsevier Science.
BB	R3	REDDY, G.R., et al., "Molecular Characterization of a 28 kDa Surface Antigen Gene Family of the Tribe Ehrlichiae", <i>Biochem Biophys Res Comm</i> (1998), 247:636-643; XP002923497; Academic Press.
BB	R4	TOTTÉ, P., et al., "Immune Responses to <i>Cowdria ruminantium</i> Infections", <i>Parasitology Today</i> (1999), 15(7):286-290; XP-002241885; Elsevier Science.
	R5	
	R6	
	R7	
	R8	
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	R10	
	R11	
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